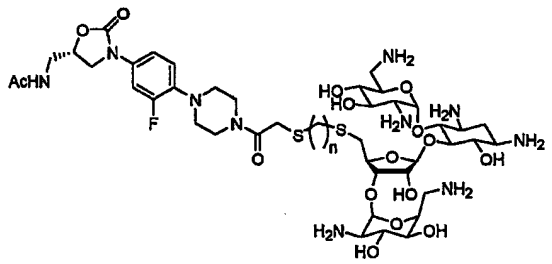
WHAT IS CLAMED IS:

1. A neomycin-oxazolidinone heterodimer represented by formula 1:

(formula 1)



wherein, n is an integer of 2-10,

Ac is acetyle group.

2. The neomycin-oxazolidinone heterodimer according to claim 1, wherein n is 6.

3. The neomycin-oxazolidinone heterodimer according to claim 1, wherein the neomycin-oxazolidinone heterodimer forms a specific bond with 16S rRNA, RRE RNA or 23S RNA.

4. The neomycin-oxazolidinone heterodimer according to claim 3, wherein the specific bond recognizes both stems and loops of the RNA motif.

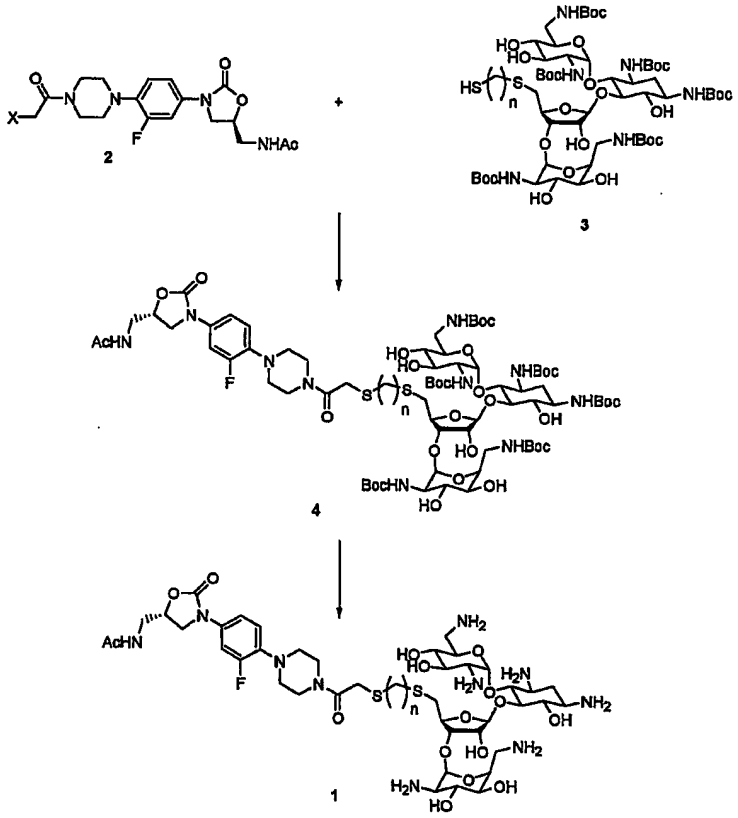
5. The neomycin-oxazolidinone heterodimer according to claim 3, wherein the specific bond is a base sequence-specific bond comprising RNA.

6. A method for preparing neomycin-oxazolidinone of claim 1, comprising steps of:

reacting the compound of formula 2 with the compound of formula 3 in the presence of base to obtain the compound of formula 4(step 1), and

reacting the obtained compound of formula 4 with a deprotective agent to prepare the neomycin-oxazolidinone heterodimer of claim 1(step 2):

(scheme reaction 1)



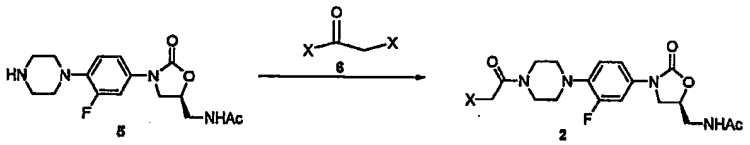
wherein, n is an integer of 2-10,

X is F, Cl or Br,

Boc is t-butyloxycarbonyl group.

7. The method according to claim 6, comprising steps of reacting the compound of formula 5 with the compound of formula 6 in the presence of pyridine to obtain the compound of formula 2:

(reaction scheme 2)



wherein, Ac is acetyl group,

X is independently Cl, Br or F.

8. The method according to claim 6, wherein the base of step 1 is K_2CO_3, Na_2CO_3 or Cs_2CO_3 and the deprotective agent is hydrochloric acid, sulfuric acid, nitric acid, acetic acid or trifluoroacetic acid.

9. An antiviral agent or an antibacterial containing neomycin-oxazolidinone heterodimer of claim 1 as an active ingredient.